Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-12-18-09** **Date: 20-12-17**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & Other cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/82/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-17
Sample ID No	:	2017-12-18-09 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	19-12-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	546	676	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	570	690	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.883	590	695	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 23-12-17

Lab ID	:	**CP-2017-12-18-09**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & Other cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/82/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-12-17
Sample ID No	:	2017-12-18-09 /05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	19/12/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.316	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.222	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.238	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 11/01/2018

Lab ID	:	CP-2018-01-08-13
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & Other cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/82/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-13 /01
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/01/2018	11/01/2018	150.26 X 150.30 X 150.24	22584	8.298	589.4	26.1	26.5
2	Cement Concrete Pavement	M30	04/01/2018	11/01/2018	150.32 X 150.36 X 150.40	22602	8.331	621.6	27.5	
3	Cement Concrete Pavement	M30	04/01/2018	11/01/2018	150.23 X 150.35 X 150.30	22587	8.382	582.7	25.8	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/02/2018

Lab ID	:	CP-2018-01-08-13
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & Other cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/82/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-13 /02
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/01/2018	01/02/2018	150.29 X 150.39 X 150.32	22602	8.345	741.3	32.8	32.4
2	Cement Concrete Pavement	M30	04/01/2018	01/02/2018	150.24 X 150.28 X 150.31	22578	8.360	720.2	31.9	
3	Cement Concrete Pavement	M30	04/01/2018	01/02/2018	150.30 X 150.33 X 150.34	22595	8.372	734.3	32.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-08-13** **Date: 11/01/2018**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & Other cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/82/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-13 /03
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/01/2018	11/01/2018	150.42 X 150.43 X 150.34	22628	8.390	622.3	27.5	27.1
2	Cement Concrete Pavement	M30	04/01/2018	11/01/2018	150.39 X 150.43 X 150.37	22623	8.356	613.1	27.1	
3	Cement Concrete Pavement	M30	04/01/2018	11/01/2018	150.29 X 150.36 X 150.39	22598	8.345	605.6	26.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/02/2018

Lab ID	:	**CP-2018-01-08-13**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Divosion, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 3rd main road & Other cross Manjunatha Nagara in Ward No.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.
Customer's Reference	:	BBMP/EE/DD/WO/82/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-01-18
Sample ID No	:	2018-01-08-13 /04
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	04/01/2018	01/02/2018	151.88 X 150.64 X 150.24	22879	8.198	757.3	33.1	
2	Cement Concrete Pavement	M30	04/01/2018	01/02/2018	150.98 X 150.47 X 150.44	22718	8.202	745.1	32.8	32.8
3	Cement Concrete Pavement	M30	04/01/2018	01/02/2018	150.28 X 150.69 X 150.47	22646	8.235	733.7	32.4	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2017-12-21-02** **Date: 23-12-17**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Divosion, BBMP, Bangalore.

Address : T.Dasarahalli Sub Divosion, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 3rd main road & Other cross Manjunatha Nagara in Ward No.14 Bagalagunte.

Agency : Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th C main road, 3rd Y Block, Rajajinagar, Bangalore-560 010.

Customer Reference : BBMP/EE/DD/WO/82/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-17

Sample ID No : 2017-12-21-02/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 21-12-17

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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